BRUHAT BANGALORE MAHANAGARA PALIKE

Detailed Estimate for :-Improvements to parks in ward no -08 Kodigehalli

Estimated cost Rs.25.00 Lakhs

Sl. No	Description of work	No	Dimensions L	B	D	qty	Rate	Unit	Amount
1	Earth work in surface excavation in hard soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.50m. excavated surface levelled and neatly dressed , disposed earth to be levelled after breaking of clods and neatly dressed as per specifications.(S.R.of PWD 2018-19, P.No.6, I.No.2.2)								
	open gym platform	1	21.00	9.50	0.30	59.85			
	Approach	2	10.00	3.00	0.30	18.00			
					Total	**77.85**	263.94	Cum	**20547.73**
	Basic Rate	249.00							
	Area Weightage @ 6%	14.94							
	Total	263.94							
2	Providing and laying in position plain cement concrete of Mix CC 1:4:8 with OPC cement @ 180 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation including cost of all materials, labour HOM of machinery curing complete as per specification, specification No. KBS 4, 1, 4.2 (PageNo.13, Item No.4.3)								
	open gym platform	1	21.00	9.50	0.15	29.93			
	Approach	2	10.00	3.00	0.15	9.00			
					Total	**38.93**	5408.12	Cum	**210511.07**
	Basic Rate	5102.00							
	Area Weightage @ 6%	306.12							
	Total	5408.12							
3	Providing and fixing precast solid concrete kerb stones made out of CC. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete (P. No. 27 I. No.5.29.2)								
	Kerb for platfrom	2	21.00			42.00			
		2	9.50			19.00			
	Aproach	4	10.00			40.00			
		2	3.00			6.00			
						107.00			
		107	0.45			237.78			
						237.00	467.46	Sqm	**110788.02**
	Basic Rate	441.00							
	Area weightage @ 6%	26.46							
	Total	467.46							

SL No	Description of work	No	Dimensions			qty	Rate	Unit	Amount
			L	B	D				
4	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No. 4.5 of PWD SR 2015-16)								
	open gym platform	1	21.00	9.50	0.10	19.95			
	Approach	2	10.00	2.90	0.10	5.80			
	Kerb ston fixing	2	21.00	0.30	0.10	1.26			
		2	9.50	0.30	0.10	0.57			
		4	10.00	0.30	0.10	1.20			
	Gym Items	9	0.60	0.60	0.45	1.46			
					Total	**30.24**	5647.68	Cum	**170774.55**
	Basic Rate	5328.00							
	Area Weightage @ 6%	319.68							
	Total	5647.68							
5	Providing and fixing cement base precast, pre-polished cement concrete designer tiles 25mm thick conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mix finished with flush pointing using white cement, including cost of materials, including cutting, gridding the edge to half/full round wherever required, labour curing complete as per specification. (P.112, I. No.14.62)								
		1	21.00	9.50		199.50			
		2	10.00	3.00		60.00			
						259.50			
	Deduct equipment area	9	0.60	0.60		3.24			
					Total	**256.26**	1305.92	sqmt	**334655.00**
	Basic Rate	1232.00							
	Area weightage @ 6%	73.92							
	Total	1305.92							
15	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.(P No. 124 I.No. 15.80)								
		2	21.00		0.40	16.80			
		2	9.50		0.40	7.60			
		4	10.00		0.40	16.00			
		2	3.00		0.40	2.40			
					Total	**42.80**	39.22	sqmt	**1679.00**
	Basic Rate	37.00							
	Area weightage @ 6%	2.22							

39.22

Sl. No	Description of work	No	Dimensions			qty	Rate	Unit	Amount
			L	B	D				
	Total	39.22							
7	KSRRB M2700- Painting on Concrete Surface KSRRB M2700-12. Providing and applying 2 coats of water based cement paint to unplastered concrete surface after cleaning the surface of dirt, dust, oil, grease, efflorescence and applying paint at of 1 litre for 2 sqm complete as per specifications MORTH Specification No. 800 (P No. 248 I.No. 32.11)								
		2	21.00		0.40	16.80			
		2	9.50		0.40	7.60			
		4	10.00		0.40	16.00			
		2	3.00		0.40	2.40			
					Total	**42.80**	69.96	sqmt	**2994.00**
	Basic Rate	66.00							
	Area weightage @ 6%	3.96							
	Total	69.96							
8	Supply and fixing of Elliptical Cross Trainer. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance: Capacity_1 Person.								-
						1.00	140000	each	**140000.00**
9	Supply and fixing of HD Health Walker. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Colour RAL 5019 Blue and RAL 1014 Beige Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. . Capacity 1 Person								-
						1.00	140000	each	**140000.00**

Sl. No	Description of work	No	Dimensions			qty	Rate	Unit	Amount
			L	B	D				
10	Supply and Fixing of HD Sit Up Station. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance: Capacity_2 Persons.								-
						1.00	125000	each	**125000.00**
11	Supply and fixing of Self Weighted Rower. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Colour RAL 5019 Blue and RAL 1014 Beige Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Capacity_1 Person.								-
						1.00	165000	each	**165000.00**
12	Supply and Fixing of HD Mini Ski. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Capacity_2 Persons.								-
						1.00	160000	each	**160000.00**
13	Supply and Fixing of Bicycle. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Capacity_1 Persons.								-
						1.00	125000	each	**125000.00**

Sl. No	Description of work	No	Dimensions			qty	Rate	Unit	Amount
			L	B	D				
14	Supply and fixing of HD Squat Pushing. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Capacity 2 Persons								
						1.00	215000	each	**215000.00**
15	Supply and Fixing of Arm & Pedal Bike. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Capacity_1 Persons.								
						1.00	170000.00	each	**170000.00**
16	Supply and fixing of Twist Stepper. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Capacity_2 Persons.								
						1.00	180000.00	each	**180000.00**
17	Lead for earthwork and disposal of debris shall be payable at carriage rates by mechanical means including loading and unloading for earthwork (upto 10 kms) complete with all lead & lift & as per the direction of the Engineer in charges. (S.R.of PW,P & IWTD, SR 2018-19								
	For 10k.m	**10x1.3x2=**		**26.00**					
	Loading & unloading			**68.00**					
				94.00					
	A.W 6% =			**5.64**					
	Total =			**99.64**					
	Qty item No.1					77.85			
					Total	**77.85**	99.64	cum	**7756.97**

Sl. No	Description of work	No	Dimensions L	Dimensions B	Dimensions D	qty	Rate	Unit	Amount
									22,79,706.34
	A.Total Construction Cost								2113073.51
22	B.Cost towards PMC / Third Party inspection LS=A*2%								42,261.47
23	12% GST on SR 2018-19 9 items C.Cost towards 12% GST=(A+B)*12%								258640.20
24	D.Cost towards 3% KRIDL Charges+ 1% CESS=(A*4%)								84,523.00
	24,96,856.42 E.Sub Total=(A+B+C+D)								2498498.18
25	F.Miscellaneous and rounding off								1501.82
	G.Total =(E+F)								2500000.00

Certificate

1. The work spot has been inspected and the work is found necessary
2. This estimate is prepared as per PWD SR of 2018-19 & approved data rate.
3. This provisions were made in this estimate are necessary and adequate
4. This work comes under B.B.M.P limits

Assistant Engineer
Project Division Yelahanka
BBMP Bangalore

Asst. Executive Engineer,
Project Division Yelahanka
BBMP Bangalore

Executive Engineer,
Project Division Yelahanka
BBMP Bangalore
12/X/18

Administrative Approval

Accorded For Rs. 25.00 Lakhs
Head of A/C P-3292
CER NO :.....21..... Dt:..30/11/18

E.E. (Project) 30/11

Technical Sanction

Accorded For Rs. 25.00 Lakhs only
Head of A/C P-3292
CER NO TS/103/18-19 Dt:30.11.18

TA CE (YNK)